

INFORMATION DISCLOSURE CITATION

PTO-1449

SEP 19 2000

ATTY. DOCKET NO.
A-68087-1/RMS/DCFSERIAL NO.
09/425,633APPLICANT
Chee et al.FILING DATE
October 22, 1999GROUP
1643

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SEP 22 2000

TECH CENTER 16002000

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
W	1	4,822,746	4/1989	Walt	436	528	
	2	5,002,867	3/1991	Macevicz	435	6	
	3	5,114,864	5/1992	Walt	436	528	
	4	5,105,305	4/1992	Betzig et al.	359	368	
	5	5,143,853	9/1992	Walt	436	501	
	6	5,028,545	7/1991	Soini	436	501	
	7	5,244,636	9/1993	Walt et al.	422	82.07	
	8	5,244,813	9/1993	Walt et al.	436	172	
	9	5,250,264	10/1993	Walt et al.	422	82.07	
	10	5,252,494	10/1993	Walt	436	528	
	11	5,254,477	10/1993	Walt	436	172	
	12	5,298,741	3/1994	Walt et al.	250	227.23	
	13	5,320,814	6/1994	Walt et al.	422	82.07	
	14	5,496,997	3/1996	Pope	250	227.21	
	15	5,512,490	4/1996	Walt et al.	436	171	
	16	5,573,909	11/1996	Singer et al.	435	6	
	17	5,633,972	5/1997	Walt et al.	385	116	
	18	4,499,052	2/1985	Fulwyler	422	52	
	19	5,690,894	11/1997	Pinkel et al.	422	68.1	
	20	5,194,300	3/1993	Cheung	427	213.31	
W	21	5,132,242	7/1992	Cheung	436	501	

EXAMINER	DATE CONSIDERED
W	10/1/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SEP 27 2000
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>M</i>	22	5,494,798	2/1996	Gerdt et al.	435	6	
	23	5,565,324	10/1996	Still et al.	435	6	
	24	5,516,635	5/1996	Ekins et al.	435	6	
	25	5,900,481	5/1999	Lough et al.	536	55.3	
	26	5,888,723	3/1999	Sutton et al.	422	68.1	
	27	5,380,489	1/1995	Sutton et al.	435	5	
	28	5,537,000	07/1996	Alivisatos et al.	435	4	
	29	5,849,215	12/1998	Gin et al.	252	299.01	
<i>W</i>	30	5,881,200	04/1999	Burt	385	142	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>M</i>	31	0478 319	4/1992	EP				
	32	0269764	6/1988	EP				
	33	93/02360	2/1993	PCT				
	34	89/11101	11/1989	PCT				
	35	97/14028	4/1997	PCT				
	36	0 723 146	7/1996	EP				
	37	98/40726	9/1998	PCT				
	38	0 392 546	10/1990	EP				
	39	98/53093	11/1998	PCT				
	40	97/40385	10/1997	PCT				
<i>W</i>	41	98/53300	11/1998	PCT				

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INFORMATION DISCLOSURE CITATION PTO-1449				ATTY. DOCKET NO. A-68087-1/RMS/DCF		SERIAL NO. 09/425,633			
				APPLICANT Chee et al.				RECEIVED SEP 22 2000 TECH CENTER 1600/2900	
				FILING DATE October 22, 1999		GROUP 1643			
PATENT DOCUMENTS									
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE			
N	42	5,751,018	05/1998	Alivisatos et al.	257	64			
N	43	5,505,928	04/1996	Alivisatos et al.	423	299			
N	44	5,888,885	03/1999	Xie	438	493			
FOREIGN PATENT DOCUMENTS									
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation			
						Yes	No		
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M	45	Milanovich et al., "Clinical measurements using fiber optics and optrodes," <i>Novel Optical Fiber Techniques for Medical Application</i> , SPIE, 494:18-31 (1984).							
	46	Seitz et al., "Chemical Sensors Based on Immobilized Indicators and Fiber Optics," <i>C.R.C. Critical Reviews in Analytical Chemistry</i> , 19(2):135-173 (1988).							
	47	Wolfbeis, "Fiber Optical Fluorosensors in Analytical Chemistry," <i>Molecular Luminescence Spectroscopy, Methods and Applications</i> (S.G. Schulman, editor), Wiley & Sons, New York, 129-280 (1988).							
	48	Angel, "Optrodes: Chemically Selective Fiber-Optic Sensors," <i>Spectroscopy</i> , 2(4):38-47 (1987).							
	49	Walt et al., "Design, Preparation, and Applications of Fiber-Optic Chemical Sensors for Continuous Monitoring," <i>Fiber Optic Chemical Sensors, Chemical Sensors and Microinstrumentation</i> , 252-272 (1989).							
	50	Freeman et al., "Oxygen Probe Based on Tetrakis(alkylamino)ethylene Chemiluminescence," <i>Anal. Chem.</i> , 53:98-102 (1981).							
	51	Lippitsch et al., "Fibre-Optic Oxygen Sensor with the Fluorescence Decay Time as the Information Carrier," <i>Anal. Chem. Acta.</i> , 205:1-6 (1998).							
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M	55	Munkholm et al., "A Fiber-Optic Sensor for CO ₂ Measurement," <i>Talanta</i> , 35(2):109-112 (1988).							
EXAMINER				DATE CONSIDERED					
M				Apr. 10					

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8085 1449A.FRM (8/95)

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M	56	Anonymous, "Fluorescent Microspheres," Tech. Note 19, Bang Laboratories, (Fishers, In) Bebruary 1997.
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	60	Pope, E. "Fiber Optic Chemical Microsensors Employing Optically Active Silica Microsephres," SPIE, 2388:245-256 (1995).
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74	Munkholm et al., "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement," <i>Anal. Chem.</i> , 58:1427-1430 (1986).
75	Seitz, "Chemical Sensors Based on Fiber Optics," <i>Anal. Chem.</i> , 56(1):16A-34A (1984).
76	Saari et al., "pH Sensor Based on Immobilized Fluoresceinamine," <i>Anal. Chem.</i> , 54:821-823 (1982).
77	Zhujun et al., "A Fluorescence Sensor for Quantifying pH in the Range for 6.5 to 8.5," <i>Anal. Chem. Acta.</i> , 160:47-55 (1984).
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80	Michael et al., "Randomly Ordered Addressable High-Density Optical Sensor Arrays," <i>Anal. Chem.</i> , 70:1242-1248 (1998).
81	Bawendi et al., "The Quantum Mechanics of Larger Semiconductor Clusters ('Quantum Dots')," <i>Annu. Rev. Phys. Chem.</i> , 41:477-496 (1990).
82	Corriu et al., "Recent Developments of Molecular Chemistry for Sol-Gel Processes," <i>Angew. Chem. Int. Ed. Engl.</i> , 35:1420-1436 (1996).
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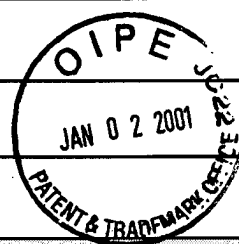
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 SERIAL NO.
09/425,633

 APPLICANT
Chee et al.

 FILING DATE
October 22, 1999

 GROUP
1655


U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
M	1	4,200,110	4/1980	Peterson et al.	128	634	
	2	4,682,895	7/1987	Costello	356	402	
	3	4,785,814	11/1988	Kane	128	634	
	4	4,824,789	4/1989	Yafuso et al.	436	68	
	5	4,999,306	3/1991	Yafuso et al.	436	68	
	6	5,302,509	4/1994	Cheeseman	435	6	
	7	5,357,590	10/1994	Auracher	385	33	
	8	5,435,724	7/1995	Goodman et al.	433	215	
	9	5,481,629	1/1996	Tabuchi	385	14	
	10	5,575,849	11/1996	Honda et al.	118	44	
	11	5,639,603	6/1997	Dower et al.	435	6	
	12	5,656,241	8/1997	Seifert et al.	422	82.06	
	13	5,814,524	10/1998	Walt	436	518	
	14	5,840,256	11/1998	Demers et al.	422	102	
	15	5,854,684	12/1998	Stabile et al.	356	440	
EXAMINER	M				DATE CONSIDERED		
					April 8, 2001		

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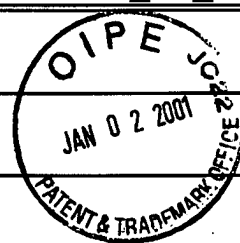
PTO-1449

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FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
M	16	96/03212	2/1996	PCT				
	17	97/14928	4/1997	PCT				
	18	99/18434	4/1999	PCT				
	19	99/60170	11/1999	PCT				
	20	00/13004	3/2000	PCT				
R	21	00/16101	3/2000	PCT				
	22	00/48000	9/2000	PCT				

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W	23	Czarnik, "Illuminating the SNP Genomic Code," Modern Drug Discovery, 1(2): 49-55 (1998).
	24	Ferguson et al., "A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression," Nature Biotechnology, 14:1681-1684 (1996).
	25	Healey et al., "Improved Fiber-Optic Chemical Sensor for Penicillin," Anal. Chem. 67(24):4471-4476 (1995).
	26	Healey et al., "Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber," SPIE Proc. 2388:568-573 (1995).
	27	Michael et al., "Making Sensors out of Disarray: Optical Sensor Microarrays," Proc. SPIE, 3270: 34-41 (1998).
	28	Michael et al., "Randomly Ordered Addressable High-Density Optical Sensor Arrays," Anal. Chem. 70(7): 1242-1248 (April 1998).
	29	Michael et al., "Fabrication of Micro- and Nanostructures Using Optical Imaging Fibers and there Use as Chemical Sensors," Proc. 3rd Intl. Symp., Microstructures and Microfabricated Systems, ed. P.J. Hesketh, et al., v. 97-5, Electrochem. Soc., 152-157 (Aug. 1997).
	30	Pantano et al., "Ordered Nanowell Arrays," Chem. Mater., 8(12): 2832-2835 (1996).
	31	Walt, D. "Fiber Optic Imaging Sensors," Accounts of Chemical Research, 31(5): 267-278 (1998).
W	32	Walt, "Fiber-Optic Sensors for Continuous Clinical Monitoring," Proc. IEEE, 80(6): 903-911 (1992).

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/425,633
				Filing Date	October 22, 1999
				First Named Inventor	CHEE, et al.
				Group Art Unit	1656
				Examiner Name	B. Forman
				Attorney Docket Number	A-68087-1/RMS/DCF/ANS
Sheet		of			

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Examiner Signature		Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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09/425,633**RECEIVED**APPLICANT
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APR 11 2001

FILING DATE
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1656

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
M -	1	5,474,895	12/1995	Ishii et al.			
A -	2	5,518,883	5/1996	Soini			
R -	3	5,610,287	3/1997	Nikiforov			

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EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
M -	4	99/67641	12/1999	WO				
	5	00/13004	3/2000	WO				
	6	00/16101	3/2000	WO				
	7	00/39587	7/2000	WO				
	8	00/47996	8/2000	WO				
	9	00/48000	9/2000	WO				
	10	00/63437	10/2000	WO				
	11	00/04372	1/2000	WO				

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M -	12	Shoemaker et al., "Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy," Nature Genetics, 14:450-456 (1996).						

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